

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051643

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01F5/00 F04B53/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01F F04B F04C F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 305 265 B1 (BINGHAM DENNIS N ET AL) 23 October 2001 (2001-10-23)	1
A	column 3, line 38 - column 11, line 22; figures 1-5	2-18
X	US 6 162 031 A (TREMOULET JR OLIVIER L) 19 December 2000 (2000-12-19)	1
	column 2, line 21 - column 4, line 29; figures 1,2,5	
A	EP 1 284 367 A (TOYOTA MOTOR CO LTD ; DENSO CORP (JP)) 19 February 2003 (2003-02-19)	1-18
	paragraph '0013! - paragraph '0022!; figure 1	
A	US 4 233 886 A (BALZANO LUCIEN D ET AL) 18 November 1980 (1980-11-18)	1-18
	abstract; figure 1	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

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Date of the actual completion of the international search

13 December 2004

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21/12/2004

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Information on patent family members

International Application No

PCT/IB2004/051643

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6305265	B1	23-10-2001	NONE
US 6162031	A	19-12-2000	NONE
EP 1284367	A	19-02-2003	JP 2001295728 A 26-10-2001 EP 1284367 A1 19-02-2003 US 2003136260 A1 24-07-2003 CN 1437687 T 20-08-2003 WO 0179698 A1 25-10-2001
US 4233886	A	18-11-1980	FR 2399593 A1 02-03-1979 DE 2833139 A1 15-02-1979 GB 2012021 A , B 18-07-1979 JP 61204979 U 24-12-1986 JP 54026506 A 28-02-1979